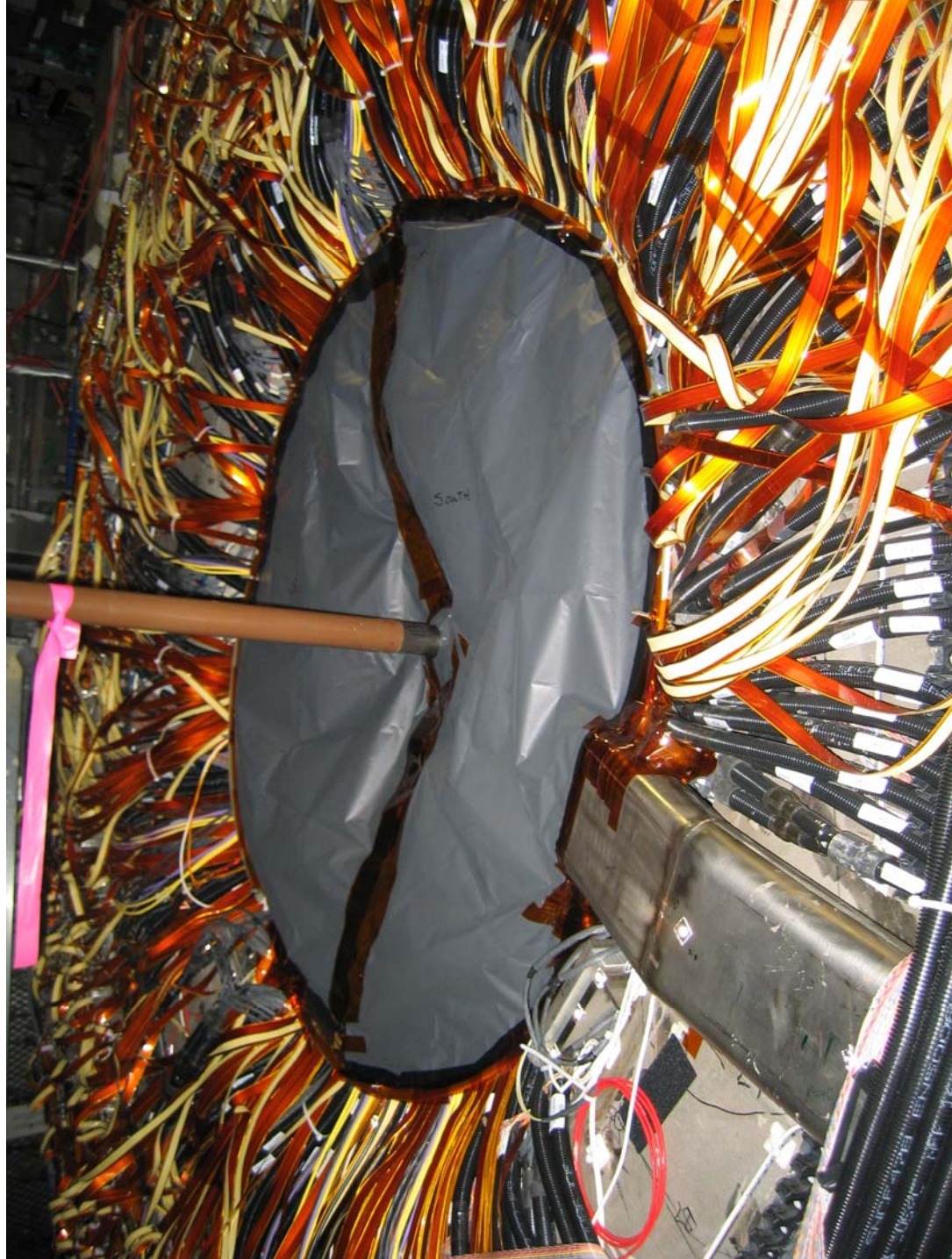
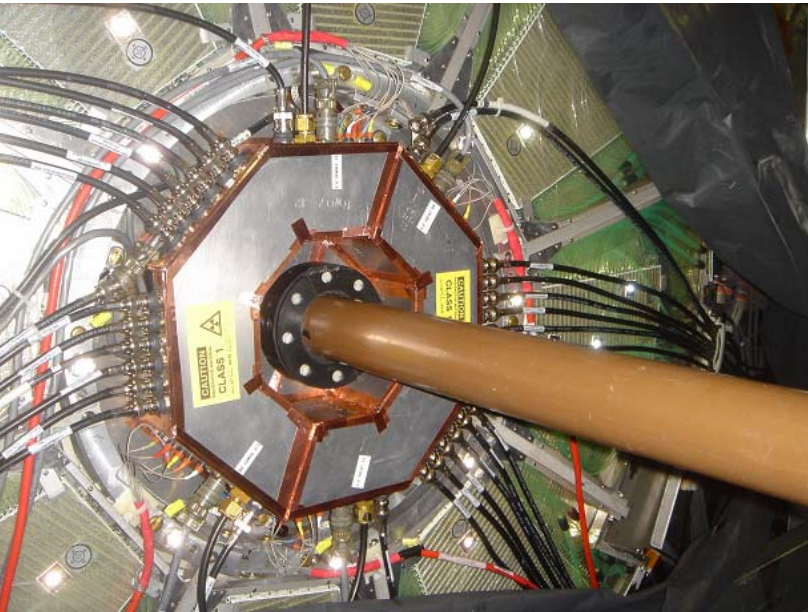




2007 Shutdown

George Ginther
1 October 2007





2007 Shutdown Activities

- Luminosity monitors
 - Replaced scintillators
 - Remounted luminosity monitors
- Silicon Microstrip Tracker
 - Comprehensive studies of disabled HDIs nearly complete
 - New active adapter card in specific locations
 - Clock cable re-terminations as needed
 - Voltage adjustments in progress
 - Preparing for detector closing
- Central Fiber Tracker and Preshower Detectors
 - Testing updated AFEII data format with TDC readout
 - Unpacker written and integrated into offline package
 - Preparing to upgrade Forward Pre-Shower to AFEII readout





2007 Shutdown Activities

- Calorimeters
 - Top off liquid argon levels in SEC and CC
 - Replaced failed preamp and BLS supplies
 - Single channel recoveries completed
 - Inner Cryostat Detector
 - Substantial individual channel recover efforts complete
 - Monitoring of stability via pulser runs continues
- Muon systems
 - Calibrations completed
 - Infrastructure maintenance progressing
 - Individual channel recoveries also in progress
- Forward Proton Detector
 - Decommissioned detector
 - Veto counters will be removed as detector is closed



2007 Shutdown Activities

- Central Track Trigger
 - Upgrades installed
 - Preparation and evaluation of new equations in progress
- Level 1 Muon and Level 1 CalTrack
 - Busy firmware updated
 - Re-terminated Level 1 cables as necessary
 - Spare pool solidified
- Level 1 Calorimeter
 - Excluded channels verified
 - Preparing for automated routine pedestal adjustments
- Online systems maintenance and upgrades
 - Operating system and file server upgraded
 - Control room nodes upgrade in progress



Cryo Equipment Incidents

- Wet and dry expanders failed to stop on inadvertent "Mycom off" software interlock signal
 - Inlet valve failed to seal
 - Valve pre-load adjusted
 - Centrifugal trip pin did not deploy
 - Pin has been polished and lubricated
 - Brakes were insufficient to stop machine
 - Brakes have been adjusted
 - Emergency high pressure helium stop button employed
- Leaking relief valve split
 - Suspect that repeated ice growth had put sideways forces on the valve
 - Verified orientation and status of other relief valves in our systems
 - Checked other systems for potential thermal cycle related issues
- Relevant experts have been notified



Low Beta Quads

- Re-alignment of low beta quads planned
- Expect to have a new operating point when collisions resume
 - Requires new equation generation for the Central Track Trigger and Silicon Track Trigger adjustments as well
- Expect to restore insulation to isolate collision hall from Tevatron tunnel as the detector is closed

Beam Parameters	Pre-Shutdown	Post-Shutdown
X position (μm)	-800	183
X angle (μrad)	-120	-102
Y position (μm)	1370	113
Y angle (μrad)	190	120

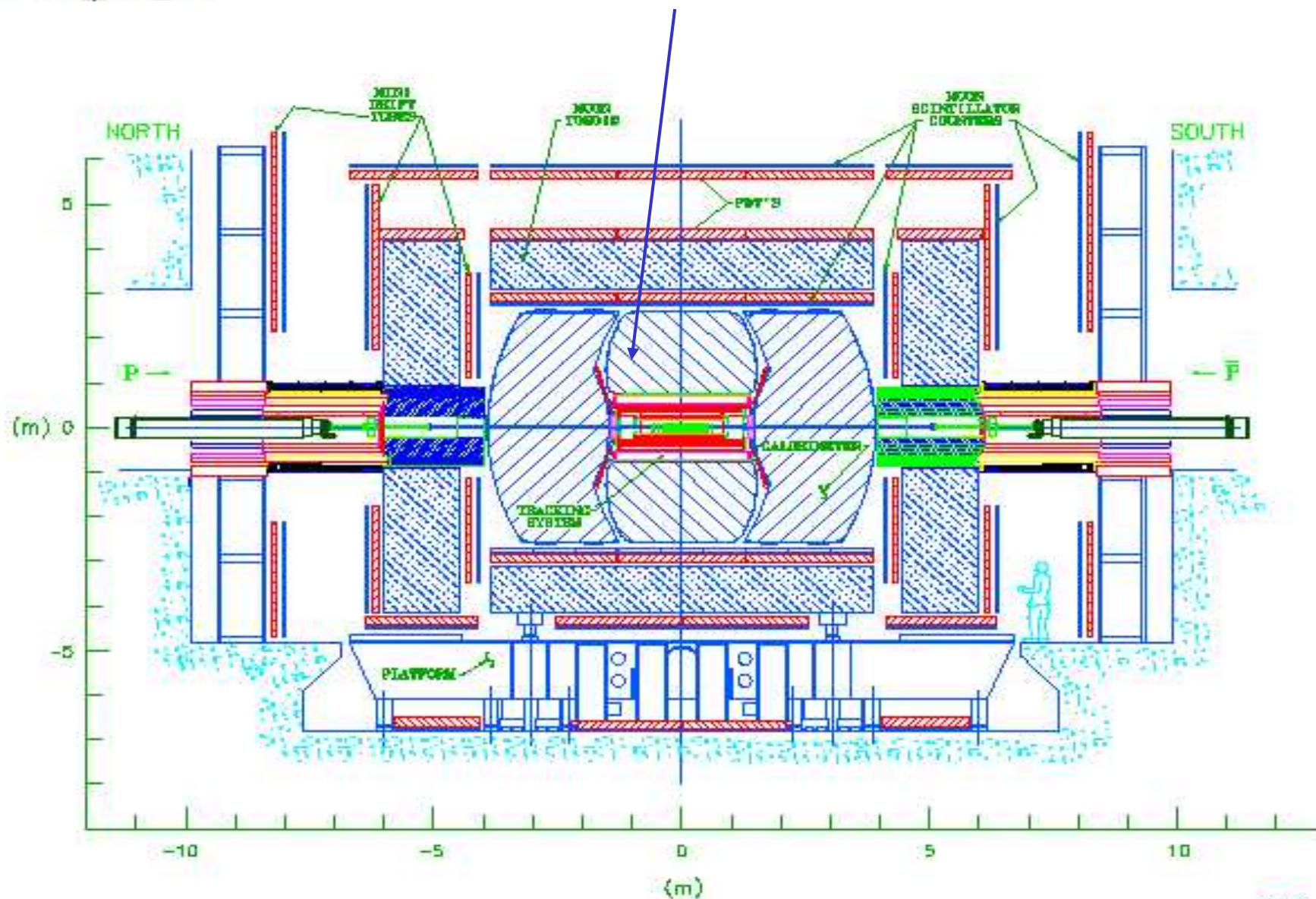


Approaching the end of this shutdown

- Safety system tests follow site wide power outage on Wednesday Oct 3
 - To be followed by timely DAQ and detector recovery
- Expect to close gaps on Thursday Oct 3 and Friday Oct 4
- Cathedrals closing scheduled for Monday Oct 8
- Resume round the clock control room shift coverage expected on Monday Oct 8
 - to facilitate smooth and efficient recovery after this long shutdown
- Plan for collision hall search and secure on Monday Oct 8 for magnet tests
 - Survey and other activities after detector is closed
- Full shift coverage scheduled starting Thursday Oct 11
 - Run cosmics and exercise detector systems and monitors until beam arrives
- Propose "final" secure collision hall Friday Oct 12

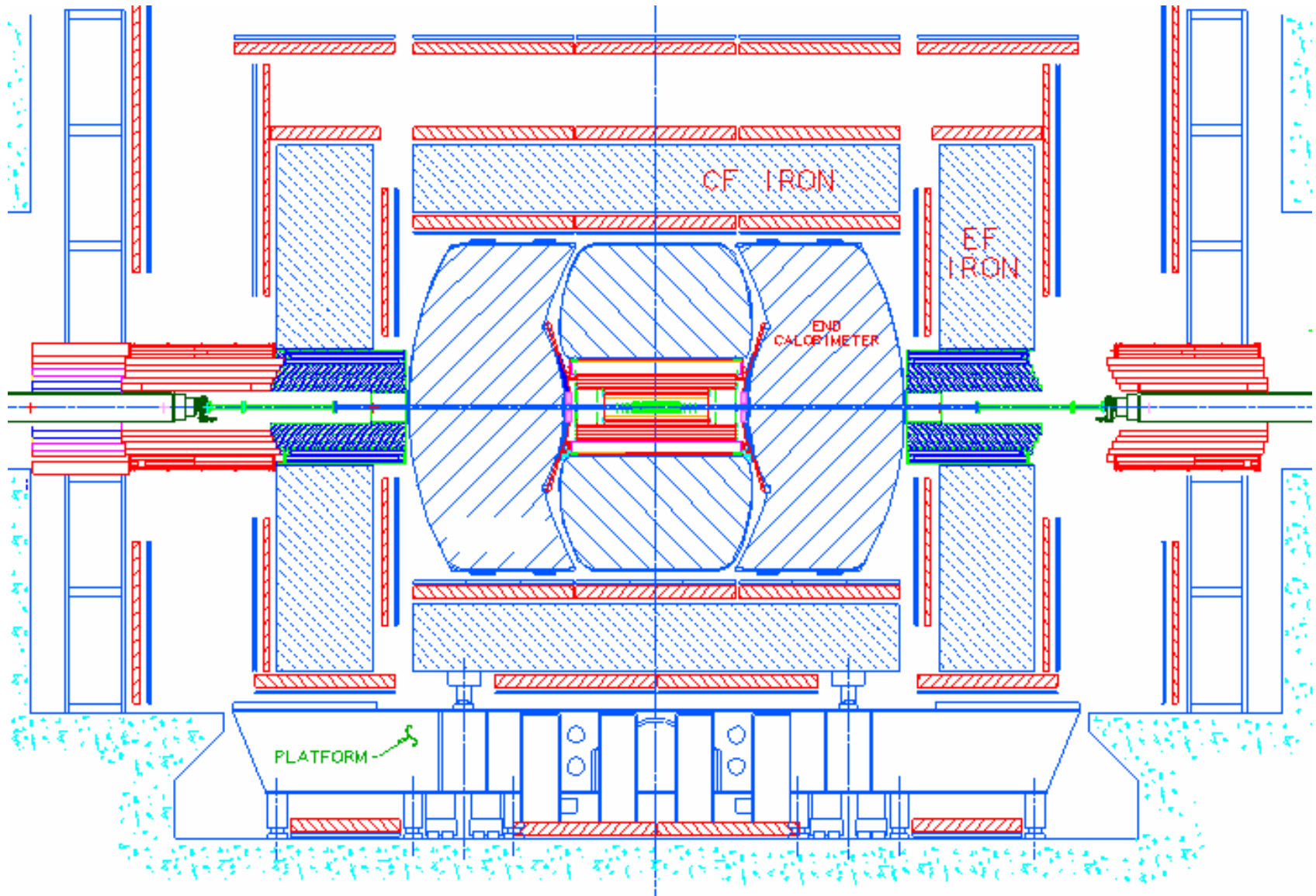


Closed Configuration



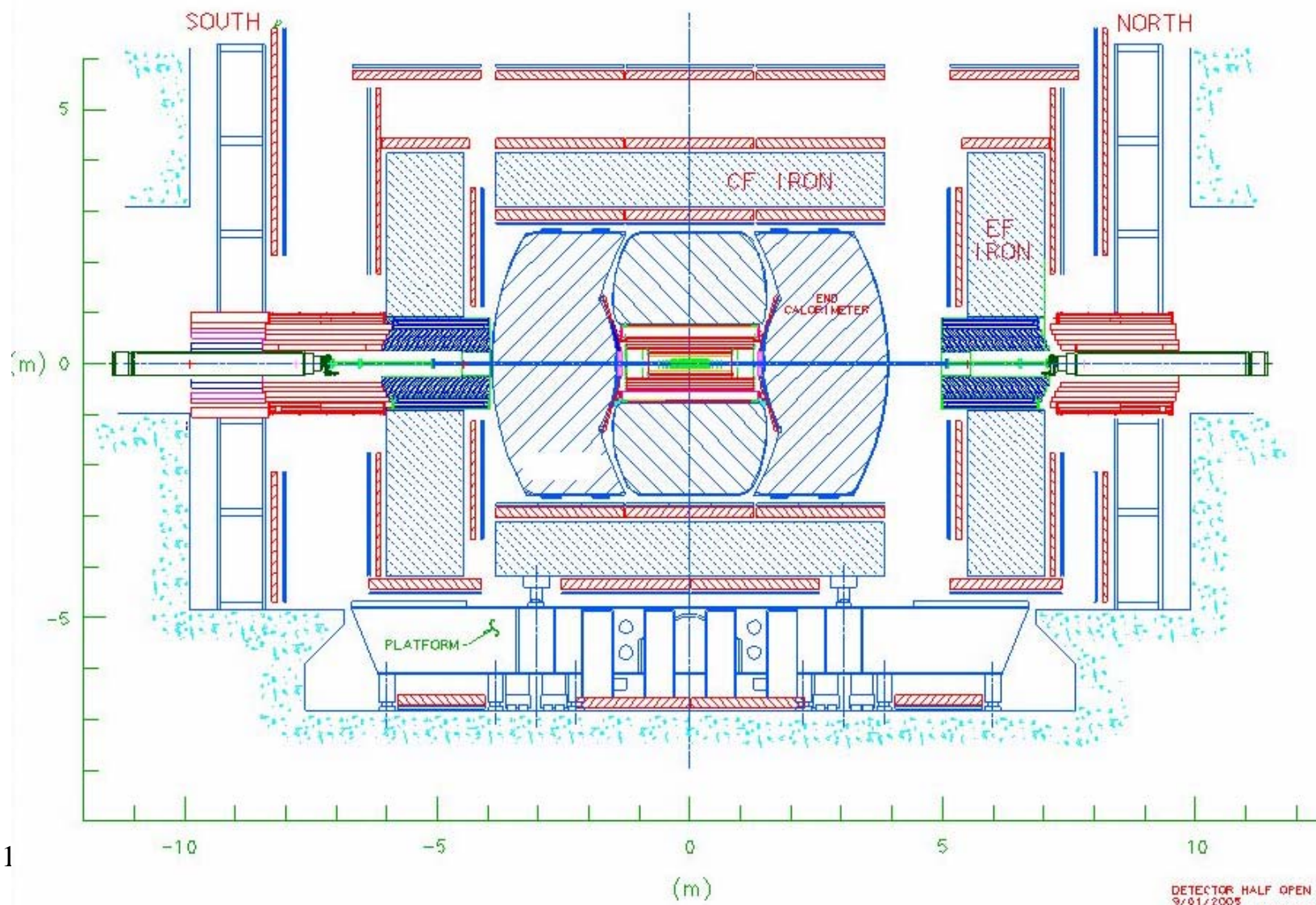


Clam shells and muon shielding open on north end





North EF open too





South EF and EC open allowing access to the south gap (assuming CF is also open)

